1	Claims
2	Claim 1. A computer-implemented prescription management
3	system for use by a prescriber in creating a prescription at
4	a point of patient care, said prescription being usable by a
5	pharmacist to dispense drugs, said prescription management
6	system comprising:
7	a) electronic posting means to select and capture in said
8	prescription:
9	i) a patient identifier;
10	ii) a prescribed drug;
11	iii) a dosage for said prescribed drug; and
12	iv) a patient condition intended by said prescriber to
13	be treated by said prescribed drug; and
14	b) a displayable library of prescribable drugs; and
15	c) displayable patient drug formulary information to
16	indicate to said prescriber-user selected ones of said
17	prescribable drugs included within a drug formulary
18	associated with said patient to enable compliance with drug
19	formulary guidelines at the point-of-care.
20	
21	Claim 2. A prescription management system according to
22	Claim 1 having means to track preferred data usage by a user
23	and to adapt data displays to favor such preferred usage,
24	whereby the system learns and adapts to a user's habits.
25	
26	Claim 3. A prescription management system according to

-153-1 Claim 2 wherein at least one said preferred usage data 2 display comprises a personal-preference condition-selection 3 list for each system user. 4 5 Claim 4. A prescription management system according to 6 Claim 2 wherein at least one said preferred usage data 7 display comprises a personal-preference drug-selection list 8 for each system user. 9 Claim 5. A prescription management system according to 10 Claim 1 further comprising a patient history record 11 12 displayed online, said pat tent history record listing electronically available prior prescriptions, said prior 13 14 prescriptions each including a prescribed drug and a 15 condition treatment objective for each drug prescribed, 16 system-created prescript/ions being system-added to said 17 history record. 18 19 Claim 6. A prescription management system according to 20 Claim 5 comprising a patient condition list for selection of 21 a patient condition for posting to said prescription, said 22 patient condition list comprising patient conditions listed 23 in said patient history record. 24 25 Claim 7. A prescription management system according to

Claim 1 comprising a source-oriented data-retrieval

subsystem, said data retrieval subsystem accessing at least one data-retrieval networks to supply an array of up-to-date

3 prescribing information and patient-related data to the

4 point-of-care from remote source databases.

5

6 Claim 8. A prescription management system according to

7 Claim 7 wherein said data-retrie val subsystem is linked to

8 the prescription management syst/em to provide allergy and

9 interaction alerts, formulary changes, new drug approvals,

and to lock out or warn against, the proscribing of

11 inappropriate or recalled drugs.

12

13 Claim 9. A prescription management system according to

14 Claim 1 wherein said patient history record is dynamically

assembled online in response to a user request from multiple

source record elements retrieved from multiple heterogenous

17 remote databases.

18

19 **Claim 10.** A prescripti ϕ n management system according to

20 Claim 9 implemented on /a user interface device configured

21 for networked digital communication with a host computer

22 facility, wherein said patient history record is retrieved

23 as said record elements from said remote databases by said

24 host computer facility in response to a call from said user

25 device said remote source databases being selected and

26 identified according to said patient's prior geographical

1 locations and health-care service providers.

2

- 3 Claim 11. A prescription management system according to
- 4 Claim 5 wherein said patient history record is a virtual
- 5 patient record newly assembled ϕ nline in response to each
- 6 user request for said record thereby to be current with
- 7 regard to possible remote updates of said source record
- 8 elements.

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- 10 Claim 12. A prescription mahagement system according to
- 11 Claim 11 wherein said host computer facility logs the time,
- 12 date and user calling for said virtual patient record to
- 13 provide an audit trail of access to said patient's record,
- or a provider's or organization's data.

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- 16 Claim 13. A prescription management system according to
- 17 Claim 11 deployed comprehensively throughout a geographical
- 18 area, demographic, company, plan or community group whereby
- 19 all drug prescriptions created in said area are products of
- 20 said system and whereih all said drug prescriptions are
- 21 posted to source data pases accessible to said system whereby
- 22 a complete patient history record of all drug prescriptions
- 23 created for said pathent in said geographical area,
- 24 demographic, company, plan or community group can be listed
- 25 in said dynamically assembled virtual patient record.

1 Claim 14. A prescription management system according to 2 Claim 1 wherein said drugs in said drug list are classified 3 according to a patient condition for which said drugs have 4 efficacy and said prescription management system further 5 comprises a patient-condition specification procedure for 6 selecting said condition from groups of possible conditions and an onscreen drug selection /procedure for selecting said 7 prescribed drug from said library, listing multiple drugs 8 9 for treating each said patient problem. 10 11 Claim 15. A prescription management system according to 12 Claim 1 wherein said patient drug formulary display means 13 comprises a condition-driven formulary drug list, and a 14 condition-driven nonformulary drug list, said drug lists 15 being changeable according to the patient selected. 16 17 Claim 16. A prescription management system according to 18 Claim 15 wherein satd system provides drug efficacy 19 guidelines based on patient information and formulary 20 information. 21 22 Claim 17. A prescription management system according to 23 claim 3 24 wherein said prescriber-user's personal-preference list of

drugs displayed with formulary drugs indicated.

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1 Claim 18. A prescription management system according to 2 Claim 1 including relative cost information for displayed 3 formulary drugs. 4 5 Claim 19. A prescription management system according to Claim 1 wherein said drug formulary is generated by a 6 7 prescription benefits management company by providing 8 computer access to remote databases containing said drug 9 formulary information whereby appropriate formulary drugs 10 are presented to said user on screen on a user interface 11 device deployable at said point-of-care, to facilitate 12 compliance with drug formulary guidelines at said point-of-13 care. 14 15 Claim 20. A prescription management system according to 16 Claim 1 17 wherein prescribability of a drug pursuant to formulary 18 guidelines is formulary-qualified according to said patient 19 condition. 20 21 Claim 21. A pres¢ription management system according to 22 Claim 1 comprising built-in logic for accessing drug 23 formulary information from multiple drug formulary providers 24 wherein said drug formulary list is selected from said 25 multiple available drug formularies according to said 26 patient identification, said patient having a prior

arrangement with said drug formulary provider to provide 1 2 prescription-related benefits to that patient, said drug 3 formulary list information being dynamically presented to 4 said prescriber-user in the form of at/least one selection of patient-specific formularies from khich a formulary 5 6 status indication relevant to a patient therapy-related 7 choice made by said prescriber-user/is made. 8 9 Claim 22. A prescription management system according to 10 Claim 21 comprising network data communication means to update and maintain said multiple available formularies from 11 12 remote source databases of formulary/information. 13 Claim 23. A prescription management system according to 14 15 Claim 1 wherein comprising means to categorize and display said patient conditions dategorized into multiple lists, 16 17 said lists being selected from the group consisting of a 18 personal condition list of conditions encountered by the 19 prescriber, a historical condition list of conditions 20 exhibited by the patient, one or more prescriber-customized 21 condition lists, a bbdy system condition list, conditions 22 organized according/to disease pathology, therapy, personal 23 knowledge and others. 24 25 Claim 24. A prescription management system according to

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Claim 23 wherein drug selection is condition driven and said

prescriber selects a patient condition to be treated via at
least one of said condition lists.

3

4 Claim 25. A prescription management system according to

5 Claim 24 wherein a prescriber-user can intelligently to

6 access a large body of drug data selections via multiple

7 condition-driven routes to provide multiple mapping so that

8 the user can find a suitable drug or/selection of drugs via

9 different pathways according to their preferred work

10 methods.

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12 Claim 26. A prescription management system according to

13 Claim 1 wherein said electronic posting means can select and

capture dosage and route of administration information, and

optionally, length-of-treatment and generic substitution

16 authorization information, for a selected drug, said

information being system-available for all listed drugs.

18

19 Claim 27. A prescription management system according to

20 Claim 26 comprising/network data communication means to

21 update and maintain said dosage information said dosage

22 information being/dynamically supplied from a remote source

23 database when called by the system.

24

25 Claim 28. A prescription management system according to

26 Claim 1 comprésing a prescription expiration routine

1 including dosing, amount and expiration drug/quantifiers and

2 system calculation of a relationship between said drug

3 quantifiers where said system provides default values for

4 unspecified ones of said drug quantifiers in response to

5 user selection of one or more of said dyug quantifiers and

6 optionally patient history information / formulary

7 information indicating preferred drug/lists for treatment.

8

9 Claim 29. A prescription management system according to

10 Claim 2 comprising a patient data/access/control subsystem

including data access control specification means enabling a

12 patient to authorize a user to access said patient's history

data and comprising data access control means whereby only

an authorized user can acces said patient's data.

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16 Claim 30. A prescription management system according to

17 Claim 29 comprising a pathent data access auditor, said

patient data access auditor generating an access record

19 logging information as to the time date and identity of

20 entities accessing said patient history data, to provide a

21 patient data access audit trail and optionally further

22 comprising similar access audit means for generating an

23 access record logging similar information regarding access

24 to a prescriber' or organization's data.

25

26 Claim 31. A prescription management system according to

1 Claim 1 comprising a patient data access subsystem providing 2 patient-directed control of the flow of their own data. 3 4 Claim 32. A prescription management system according to 5 Claim 31 wherein said patient-directed data-access control 6 is achieved by centrally inputting tb said patient data 7 access subsystem at a host computer facility, patient-8 generated record-access specificat/ions determining which 9 parties can access what data during what/period of time. 10 Claim 33. A prescription management system according to 11 12 Claim 32 wherein said patient/generated record-access 13 specifications provide a pat/ient security profile in a pre-14 authorization file said pre-authorization file being used to 15 control access to said patient's data. 16 17 Claim 34. A prescripti ϕ n management system according to 18 Claim 1 comprising use f-related historical records generated by operation of said \$ystem by a prescriber-user, a user 19 data-access control \$ubsystem including data-access control 20 specification means/enabling a user to authorize selective 21 22 third party access/to said user's history data and 23 comprising data adcess control means whereby only an 24 authorized third/party can access said user's data and what 25 data type may be accessed by what organization or provider.

- 1 Claim 35. A prescription management system according to
- 2 Claim 20 comprising a user data access auditor, said user
- 3 data access auditor generating an access record logging
- 4 information as to the time date and identity of third
- 5 parties accessing said user history data, to provide a user
- 6 data access audit trail.

- 8 Claim 36. A prescription management system according to
- 9 Claim 1 comprising organization-generated source data
- 10 retrievable for display in said prescription-management
- 11 system from at least one remote database an organization-
- 12 directed data-access control subsystem including data-access
- 13 control specification means exabling an organization to
- 14 authorize selective third party access to said organization-
- 15 generated source data and comprising data access control
- 16 means whereby only an authorized third party can access said
- 17 organization-generated source data.

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- 20 Claim 36 comprising an organization data access auditor,
- 21 said organization data access auditor generating an access
- 22 record logging information as to the time date and identity
- 23 of third parties accessing said organization-generated
- 24 source data to provide an organization data access audit
- 25 trail,

- 1 Claim 38. A prescription management system according to 2 Claim 2 comprising newly created prescription evaluation
- 3 means to evaluate a newly prescribed drug for system-known
- 4 patient allergies or drug-to-drug interactions, or drug-to-
- 5 multiple drug interactions and absolute contraindications
- 6 with currently prescribed drugs, as known to the system.

- 8 Claim 39. A prescription management system according to
- 9 Claim 2 comprising a drug alert/subsystem for communicating
- 10 alerts relating to unfavorable or cautionary characteristics
- of particular drugs wherein said alerts are associated with
- 12 system information on the drug so/that when a user calls up
- 13 the drug in question, the receive the warning or alert, or
- 14 other special message.

15

- 16 Claim 40. A prescription management system according to
- 17 Claim 39 wherein said drug alert subsystem is operative to
- 18 communicate drug withdrawal information to system users
- 19 electronically in/real time or when said withdrawn drug is
- 20 selected for prescribing or a warning is posted directly to
- 21 the prescription.

- 23 Claim 41. A prescription management system according to
- 24 Claim 40 whereby a drug can be withdrawn from the market the
- 25 same day by making a system entry preventing completion of a
- 26 prescription for the withdrawn drug.

- 1 Claim 42. A prescription management system according to
- 2 Claim 40 wherein current users of a drug or medication can
- 3 be identified from prescription history/records, referencing
- 4 not only drugs prescribed, but also prescription expiry
- 5 dates and both the patient and their Aoctor are notified of
- 6 said drug withdrawal optionally for the physician via direct
- 7 point-to-point electronic mail.

- 9 Claim 43. A prescription management system according to
- 10 Claim 1 comprising onscreen electronic mail access to other
- users of said system, said electronic /mall capability
- 12 additionally being linked with said prescription creation
- 13 function and enabling a prescriber-uper to append an
- 14 electronic record to a prescription or prescription-related
- 15 record.

16

- 17 Claim 44. A prescription management system according to
- 18 Claim 43 wherein said electronic mail provides a platform
- 19 for accessing other /artificial intelligence and expert
- 20 systems and optionally providing linkage for transaction
- 21 services such as the ordering and reviewing of scheduling
- 22 and similar administrative functions.

- 24 Claim 45. A prescription management system according to
- 25 Claim 1
- 26 comprising a patient-selection subsystem whereby preliminary

- 1 selection of groups of patients can be made by providing
- 2 multiple patient lists selected from the group/consisting of
- 3 "Today's Patients", "In-Patients", "Out-Patients", "Private
- 4 Patients" and others.

- 6 Claim 46. A prescription management system according to
- 7 Claim 45 wherein said patient lists are system-maintained,
- 8 on an ongoing basis, using the latest/data available to the
- 9 system and include intelligent patient selection means
- 10 enabling the user to select a convenient group of patients
- 11 that has a high probability of including the next patient or
- 12 patients to be encountered, the reby speeding access and
- 13 retrieval of a desired patient record.

14

- 15 Claim 47. A prescription management system according to
- 16 Claim 1 comprising onscreen access to drug detail
- information as to indications, interactions, side effects
- 18 and precautions.

19

- 20 Claim 48. A prescription management system according to
- 21 Claim 1 comprising/a drug literature-retrieval subsystem to
- 22 retrieve drug -related information across a network from a
- 23 remote heterogerous database for display to said user in
- 24 real time.

25

26 Claim 49. A prescription management system according to

- 1 Claim 48 wherein said drug literature-retrieval/subsystem
- 2 provides the user with an access point to full disclosure
- 3 and prescribing information on a selected dryg and wherein
- 4 available said drug information is selected from the group
- 5 consisting of drug-treatment guidelines, one or more
- 6 literature references supporting said gyidelines, details of
- 7 the particular conditions for which a system-suggested
- 8 alternative drug has been found effective, adverse
- 9 conditions, preferred dosages and administration routes,
- 10 literature sources and other relevant drug-prescribing
- 11 information.

- 13 Claim 50. A prescription management system according to
- 14 Claim 49 wherein said drug /iterature-retrieval subsystem is
- operative to enable a physician, to have a hard or printed
- 16 copy, or other media form of relevant studies or literature
- sent to them by onscreen selection, said onscreen selection
- 18 being system-communica/ted to a source for said study or
- 19 literature information.

20

- 21 Claim 51. A prescription management system according to
- 22 Claim 49 wherein said drug literature-retrieval subsystem is
- 23 operative to provide a simple nonintrusive technique for
- 24 bringing new drug information to physicians at a point of
- 25 care when creating a prescription.

1 Claim 52. A prescription management system ac ϕ ording to 2 Claim 49 comprising an outcome study subsystem for selecting 3 outcome study participants by centrally maintaining patient-4 directed patient-record-access specifications whereby the 5 system can include records of patients agreeable to becoming 6 study participants in such outcome studies pursuant to 7 indications in their patient-record-agcess specifications optionally with output of said study/data being controlled 8 9 to comply with access specification's of prescribers and organizations having proprietary fights thereto. 10 11 Claim 53. A prescription management system according to 12 13 Claim 1 comprising a new drug/surveilla/nde subsystem to conduct post introduction market surverilance of new drugs 14 15 for adverse outcomes to the/treatment of a specified 16 condition or conditions with the newly introduced drug. 17 18 Claim 54. A prescription management system according to Claim 53 wherein said new drug surveillance subsystem is 19 20 operative to monitor patients reporting new problems after 21 having been prescribed the new drug in question, refer such 22 new problems to the physician user to qualify them for medical relevance and then statistically compare a 23 24 collection of simular reports with data on a pool of

similarly treated patients for significance.

26

- 1 Claim 55. A prescription management system according to
- 2 Claim 1 wherein said condition list comprises/at least five
- 3 conditions, and said drug list comprises at /east five
- 4 drugs.

- 6 Claim 56. A prescription management system according to
- 7 Claim 1 wherein said drug information domprises associated
- 8 condition information and dosage information for at least
- 9 about fifty percent of all prescribable FDA-approved drugs.

10

- 11 Claim 57. A prescription management system according to
- 12 Claim 1 comprising means to output a newly created
- 13 electronic prescription in any desired form such as to
- 14 print, to local or remote stprage or to remote file transfer
- 15 as an electronic prescription.

16

- 17 Claim 58. A prescription management system according to
- 18 Claim 1 comprising means for transmitting said electronic
- 19 prescription across a hetwork for fulfillment by a specified
- 20 pharmacy.

21

- 22 Claim 59. A prescription management system according to
- 23 Claim 57 comprising a printed dosage schedule output for
- 24 said patient.

25

26 Claim 60. A prescription management system according to

- 1 Claim 1 wherein multiple physicians accessed by a patient 2 utilize the system described herein, with common online
- 3 access to, and assembly of, a patient's prescription history
- 4 record whereby that record provides a curfent record of new
- 5 prescriptions, then a common abuse can be controlled wherein
- 6 a patient presents a problem or condition to more than one
- 7 physician to obtain multiple prescript/ions with a view to
- 8 indulging in abusive ingestion or il/icit resale.

- 10 Claim 61. A prescription management system according to
- 11 Claim 1 wherein the system also provides, for example in the
- 12 patient's history record, notification/from a pharmacy, or
- 13 from a drug benefit plan linked to the pharmacy, of
- 14 fulfillment of a prescription, and that information is
- 15 available to the prescriber, for example from the patients'
- 16 history record, another common abuse wherein a patient
- 17 pleads loss of a prescription to obtain a duplicate, can
- 18 also be prevented.

- 20 Claim 62. A prescript on management system according to
- 21 Claim 1 wherein the system also provides, for example in the
- 22 patient's history record, notification from a pharmacy, or
- 23 from a drug benefit/plan linked to the pharmacy, of
- 24 fulfillment of a prescription, and that information is
- 25 available to the prescriber, for example from the patients'
- 26 history record, wherein a patient's failure to have a

1	prescription fulfilled indicating discontinuance of the
2	prescribed therapy can be monitored and possibly corrected.
3	
4	Claim 63. A prescription produced by the system of claim 1
5	output in a form selected from the group consisting of
6	electronic, paper, digitized voice and fax.
7	
8	Claim 64. A prescription management system for electronic
9	prescription creation by a prescriper at a point of patient
LO	care, said prescription being usable by a pharmacist to
1	dispense drugs, said prescription management system
L2	comprising electronic posting means to select and capture in
L3	said prescription:
L 4	i) a patient identifier;
15	ii) a prescribed drug;
L6	iii) a dosage for said prescribed drug; and
L7	iv) a patient condition intended by said prescriber to
L8	be mitigated by said prescribed drug.
L9	
20	Claim 65. A prescription management system according to
21	Claim 64 further comprising an onscreen drug selection
22	procedure having a patient condition list specifying
23	multiple possible patient conditions, having a drug list
24	specifying multiple possible prescribable drugs and having
25	drug specification means to select and post a desired drug
26	to said prescript on;

and

wherein drugs in said drug list are classified according to 1 a patient condition for which said drugs have efficacy and 2 said onscreen drug selection procedure lists multiple drugs 3 4 for treating each said patient problem. 5 A prescription management system according to 6 Claim 64 comprising drug formulary information being a selected list of drugs being preferred for prescribing by a 8 9 drug benefit provider to said patient. 10 Claim 67. In combination, a host/computer facility and a 11 prescription management system according to claim 64 12 implemented on said host computer facility said host 13 computer facility supporting / network delivery of user-14 relevant components of said/prescription management system 15 16 to multiple remote user interface devices and providing data and communications resources for users to draw upon 17 employing said interface devices. 18 19 20 Claim 68. A combination according to claim 67 wherein said 21 host computer facility can communicate with multiple heterogenous remote/ databases to retrieve complementary data 22 elements from said databases and comprises: 23 i) a dynamic record assembly procedure for online assembly 24 of a data *ecord from said complementary data elements; 25

Τ	11) a user-device communication procedure to deliver said
2	dynamically assembled record to a calling user-
3	interface device as an integral data component of said
4	prescription management system.
5	
6	Claim 69. A professional product specification system for
7	electronically creating a technical specification usable by
8	a professional to specify technical products said product
9	specification system comprising:
10	a) electronic posting means to select and capture in said
11	prescription:
12	i) a customer identifier
13	ii) a specified product; and
14	iii) product specifications; and
15	b) an onscreen product selection procedure having a
16	product benefit list/specifying multiple possible
17	customer benefits having a product list specifying
18	multiple possible specifiable products and having
19	product specification means to select and post a
20	desired product/to said specification;
21	wherein products in said product list are classified
22	according to a customer-useful technical purpose attainable
23	with said product said onscreen product selection
24	procedure lists multiple products for providing each said
25	customer benefit.

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